

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/050092

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G06F 3/14, G06F 13/12, G09G 5/39

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G06F, G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6538653 B1 (KATSURA, K ET AL), 25 March 2003 (25.03.2003) --	1-13
A	US 5790881 A (NGUYEN, J T), 4 August 1998 (04.08.1998) --	1-13
A	US 6091863 A (NAKASHIMA, K ET AL), 18 July 2000 (18.07.2000) --	1-13
A	US 6222564 B1 (STURGES, J J), 24 April 2001 (24.04.2001) --	1-13

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

14 October 2004

Date of mailing of the international search report

20-10-2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5450542 A (LEHMAN, J A ET AL), 12 Sept 1995 (12.09.1995) ----- -----	1-13

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Information on patent family members

03/09/2004

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US 6538653 A 25/03/2003

US	6697070 B	24/02/2004
DE	3689917 D,T	22/09/1994
EP	0215428 A,B	25/03/1987
JP	2066523 C	10/07/1996
JP	7062794 B	05/07/1995
JP	62062390 A	19/03/1987
JP	62110562 U	14/07/1987
KR	9207342 Y	12/10/1992
KR	9600884 B	13/01/1996
KR	9600885 B	13/01/1996
US	4947342 A	07/08/1990
US	5751930 A	12/05/1998

US 5790881 A 04/08/1998

AU	4912096 A	27/08/1996
WO	9624901 A	15/08/1996

US 6091863 A 18/07/2000

CN	1132121 B	24/12/2003
CN	1147117 A	09/04/1997
JP	3106872 B	06/11/2000
JP	8077366 A	22/03/1996
TW	473692 B	00/00/0000

US 6222564 B1 24/04/2001

US 5854637 A 29/12/1998

US 5450542 A 12/09/1995

JP	9505424 T	27/05/1997
WO	9515527 A	08/06/1995

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